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U.S.PTO

033104

UTILITY PATENT APPLICATION TRANSMITTAL
 (Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 42P18633
 (maximum 12 characters)

First Named Inventor Hoskote et al.

Title: HARDWARE-BASED MULTI-THREADING FOR PACKET PROCESSING

Express Mail Label No. EV320119501US

ADDRESS TO: **Mail Stop Patent Application
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450**

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. **Fee Transmittal Form (e.g., PTO/SB/17)**
 (Submit an original and a duplicate for fee processing)
2. Applicant Claims Small Entity Status. (37 CFR 1.27)
3. **Specification (Total Pages 30)**
 (preferred arrangement set forth below)
 - Descriptive Title of the Invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. **Drawings(s) (35 USC 113) (Total Sheets 8)**
5. Oath or Declaration (Total Pages)
 - a. Newly Executed (Original or Copy)
 - b. Copy from a Prior Application (37 CFR 1.63(d))
 (for Continuation/Divisional with Box 18 completed)
 - i. **DELETIONS OF INVENTOR(S)** Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
 - c. Unsigned.
6. Application Data Sheet. (37 CFR 1.76)
7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission
 (if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
 - c. Statements verifying identity of above copies

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ACCOMPANYING APPLICATION PARTS

9. _____ Assignment Papers (cover sheet & documents(s))
10. _____
 - a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)
 - b. Power of Attorney
11. _____ English Translation Document (if applicable)
12. _____
 - a. Information Disclosure Statement (IDS)/PTO-1449 (or PTO/SB/08)
 - b. Copies of IDS Citations
13. _____ Preliminary Amendment
14. **Return Receipt Postcard (MPEP 503) (Should be specifically itemized)**
15. _____ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. _____ Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- 17A. _____ Claim for Foreign Priority
- 17B. Other: separate sheet with title, express mail label number, copy of postcard, and attorney's signature

17C. Pursuant to 37 C.F.R. 1.136(a)(3), applicant(s) hereby request and authorize the U.S. Patent and Trademark Office to (1) treat any concurrent or future reply that requires a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666.

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title (e.g., by way of preliminary amendment), or in an Application Data Sheet Under 37 C.F.R. 1.76:

<input type="checkbox"/> Continuation	<input type="checkbox"/> Divisional	<input type="checkbox"/> Continuation-in-part (CIP)
Of Prior Application No.: _____	Examiner _____	Group Art Unit _____
(which is a <input type="checkbox"/> continuation/ <input type="checkbox"/> divisional/ <input type="checkbox"/> CIP of prior application no. _____, which is a <input type="checkbox"/> continuation/ <input type="checkbox"/> divisional/ <input type="checkbox"/> CIP of prior application no. _____)	(List entire chain of priority)	

Applicant(s): Also include a Preliminary Amendment to amend the specification to claim priority.
For CONTINUATION AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. Correspondence Address Customer Number or Bar Code Label here) <input type="checkbox"/> Correspondence Address Below NAME _____ ADDRESS _____ CITY _____ STATE _____ ZIP CODE _____ Country _____	(Insert Customer No. or Attach Bar Code Label or R. Alan Burnett BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 12400 Wilshire Boulevard Seventh Floor Los Angeles California 90025 U.S.A. TELEPHONE (206) 292-8600 FAX (206) 292-8606
Name (PRINT/TYPE): R. Alan Burnett	Registration No.: 46,149
Signature: <u>R. Alan Burnett</u>	Date: <u>March 31, 2004</u>

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U.S.P.T.O.

FEE TRANSMITTAL FOR FY 2004

(FY 2004 Begins 10/01/2003)

TOTAL AMOUNT OF PAYMENT (\$) 1,076.00

Complete if Known:

Application No. New Patent ApplicationFiling Date HerewithFirst Named Inventor Hoskote et al.Examiner Name Not yet assignedArt Unit Not yet assignedAttorney Docket No. 42P18633 Applicant claims small entity status. See 37 CFR 1.27.

METHOD OF PAYMENT (check all that apply)

 Check Credit Card Money Order Other None Deposit AccountDeposit Account Number : 02-2666

Deposit Account Name:

 The Director is Authorized to do the following with respect to the above-identified Deposit Account:
Charge fee(s) indicated below. Credit any overpayments. Charge any additional fees during the pendency of this application. Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged. Charge fee(s) indicated below except for the filing fee.

FEE CALCULATION

1. BASIC FILING FEE

<u>Large Entity</u>	<u>Small Entity</u>	<u>Fee Description</u>	<u>Fee Paid</u>
Fee	Fee	Fee	Fee
Code	(\$)	Code	(\$)
1001	770	2001	385
1002	340	2002	170
1003	530	2003	265
1004	770	2004	385
1005	160	2005	80
Utility application filing fee			
Design application filing fee			
Plant filing fee			
Reissue filing fee			
Provisional application filing fee			
SUBTOTAL (1) \$ <u>770</u>			

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

	<u>Extra Claims</u>	<u>Fee from below</u>	<u>Fee Paid</u>
Total Claims <u>30</u>	<u>- 20** = 10</u>	<u>X 18</u>	<u>= 180</u>
Independent Claims <u>4</u>	<u>- 3** = 1</u>	<u>X 86</u>	<u>= 86</u>
Multiple Dependent			

**Or number previously paid, if greater; For Reissues, see below.

<u>Large Entity</u>	<u>Small Entity</u>	<u>Fee Description</u>
Fee	Fee	Fee
Code	(\$)	Code
1202	18	2202 9
1201	86	2201 43
1203	290	2203 145
1204	86	2204 43
1205	18	2205 9
Claims in excess of 20		
Independent claims in excess of 3		
Multiple dependent claim, if not paid		
**Reissue independent claims over original patent		
**Reissue claims in excess of 20 and over original patent		

SUBTOTAL (2) \$ 266

FEE CALCULATION (continued)

3. ADDITIONAL FEES

<u>Large Entity</u>	<u>Small Entity</u>	<u>Fee Description</u>	<u>Fee Paid</u>
Fee	Fee	Fee	Fee
Code	(\$)	Code	(\$)
1051	130	2051	65
1052	50	2052	25
1053	130	1053	130
1812	2,520	1812	2,520
1813	8,800	1813	8,800
1804	920*	1804	920*
1805	1,840*	1805	1,840*
1251	110	2251	55
1252	420	2252	210
1253	950	2253	475
1254	1,480	2254	740
1255	2,010	2255	1,005
1401	330	2401	165
1402	330	2402	165
1403	290	2403	145
1451	1,510	1451	1,510
1452	110	2452	55
1453	1,330	2453	665
1501	1,330	2501	665
1502	480	2502	240
1503	640	2503	320
1460	130	1460	130
1807	50	1807	50
1806	180	1806	180
8021	40	8021	40
1809	770	2809	385
1814	110	2814	55
1810	770	2810	385
1801	770	2801	385
1802	900	1802	900
1504	300	1504	300
1505	300	1505	300
1803	130	1803	130
1808	130	1808	130
1454	1,330	1454	1,330
Other fee (specify) _____			40
Other fee (specify) _____			_____
SUBTOTAL (3) \$ 40			_____

*Reduced by Basic Filing Fee Paid

SUBMITTED BY:

Typed or Printed Name: R. Alan Burnett

Signature: R. Alan Burnett Date: March 31, 2004

Reg. Number: 46,149 Telephone Number: (206) 292-8600

Send to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Our Reference: 42P18633

Patent

HARDWARE-BASED MULTI-THREADING FOR PACKET PROCESSING

Inventors: Yatin Hoskote; Sriram R. Vangal; Vasantha K. Erraguntla; and
Nitin Y. Borkar

Respectfully submitted,

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP

R. Alan Burnett

R. Alan Burnett
Reg. No. 46,149

"Express Mail" mailing label number: EV320119501US

Date of Deposit: March 31, 2004

I hereby certify that I am causing this paper or fee to be deposited with the United States Postal Service "Express Mail Post Office to Addressee" service on the date indicated above and that this paper or fee has been addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Adrian Villarreal

(Typed or printed name of person mailing paper or fee)

[Signature]

March 31, 2004

(Signature of person mailing paper or fee) (Date signed)

Serial/Patent No.: New Patent Application Filing/Issue Date: Herewith
Client: Intel Corporation

Title: HARDWARE-BASED MULTI-THREADING FOR PACKET PROCESSING

BSTZ File No.: 42P18633

Atty/Secty Initials: RAB/av

Date Mailed: March 31, 2004

Docket Due Date:

The following has been received in the U.S. Patent & Trademark Office on the date stamped hereon:

- | | | |
|--|--|---|
| <input checked="" type="checkbox"/> Amendment/Response (____ pgs.) | <input checked="" type="checkbox"/> Express Mail No.: <u>EV320119501US</u> | <input checked="" type="checkbox"/> Check No. <u>3449</u> |
| <input type="checkbox"/> Appeal Brief (____ pgs.) (in triplicate) | <input type="checkbox"/> Month(s) Extension of Time | <input type="checkbox"/> Amt: <u>\$1076.00</u> |
| <input checked="" type="checkbox"/> Application - Utility (<u>30</u> pgs., with cover and abstract) | <input type="checkbox"/> Information Disclosure Statement & PT0-1449 (____ pgs.) | <input type="checkbox"/> Check No. _____ |
| <input type="checkbox"/> Application - Rule 1.53(b) Continuation (____ pgs.) | <input type="checkbox"/> Issue Fee Transmittal | <input type="checkbox"/> Amt: _____ |
| <input type="checkbox"/> Application - Rule 1.53(b) Divisional (____ pgs.) | <input type="checkbox"/> Notice of Appeal | |
| <input type="checkbox"/> Application - Rule 1.53(b) CIP (____ pgs.) | <input type="checkbox"/> Petition for Extension of Time | |
| <input type="checkbox"/> Application - Rule 1.53(d) CPA Transmittal (____ pgs.) | <input type="checkbox"/> Petition for _____ | |
| <input type="checkbox"/> Application - Design (____ pgs.) | <input checked="" type="checkbox"/> Postcard | |
| <input type="checkbox"/> Application - PCT (____ pgs.) | <input type="checkbox"/> Power of Attorney (____ pgs.) | |
| <input type="checkbox"/> Application - Provisional (____ pgs.) | <input type="checkbox"/> Preliminary Amendment (____ pgs.) | |
| <input type="checkbox"/> Assignment and Cover Sheet | <input type="checkbox"/> Reply Brief (____ pgs.) | |
| <input checked="" type="checkbox"/> Certificate of Mailing | <input type="checkbox"/> Response to Notice of Missing Parts | |
| <input type="checkbox"/> Declaration & POA (____ pgs.) | <input type="checkbox"/> Small Entity Declaration for Indep. Inventor/Small Business | |
| <input type="checkbox"/> Disclosure Docs & Orig & Copy of Inventor's Signed Letter (____ pgs.) | <input checked="" type="checkbox"/> Transmittal Letter, in duplicate | |
| <input checked="" type="checkbox"/> Drawings: <u>8</u> # of sheets includes <u>11</u> figures | <input checked="" type="checkbox"/> Fee Transmittal, in duplicate | |
| <input checked="" type="checkbox"/> Other: <u>Certificate of Mailing with copy of return postcard signed by the attorney</u> | | |